

CLIMATOLOGICAL DATA FOR AUGUST, 1911.

DISTRICT No. 9, COLORADO VALLEY.

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

The month was cooler than the average, making the fifth consecutive month in the Colorado Basin with mean temperatures below the normal. The seasonal summer showers that were a feature of July, and which ceased abruptly near the end of that month, began anew in Arizona on the 8th. These conditions spread over the district the following day, and although the showers continued almost to the end of the month, the daily amounts were, as a rule, so small that on the whole the monthly values fell short of the normal on all the subdrainage areas.

TEMPERATURE.

The mean of the 149 stations reporting was 72.8°, or 0.5° below the normal. By subdivisions the means and departures were: Western Wyoming, 59.2°, -0.6°; western Colorado, 62.3°-1°; eastern Utah, 70.3°, -0.1°; western New Mexico, 72.6°, -0.2°; Arizona, 79.6°, -0.3°; and southeastern Nevada, 77°. The highest monthly mean was 95° at Mohawk Summit, Ariz., and the lowest, 49.7°, at Fraser, Colo. The first 13 days were cooler than the normal; temperatures above the normal followed till the 21st. The remainder of the month, except the last day, was generally cool. A reading as high as 100° was not reached in Wyoming or Colorado; that temperature or higher occurred at several stations in Utah and New Mexico and at the majority of stations in Arizona. Freezing temperature was generally noted in Wyoming and at a number of high level stations in Colorado, and one in Utah and Arizona. By subdivisions the extremes were: Western Wyoming, 94° at Green River and 21°

at Daniel; western Colorado, 99° at Fruita and Grand Valley and 20° at Fraser; eastern Utah, 106° at Hite and 24° at Scofield; western New Mexico, 105° at Gage and 36° at Aragon and Dulce; Arizona, 120° at Mohawk Summit and 32° at Springerville; southeastern Nevada, 110° at Logan and 36° at Caliente.

PRECIPITATION.

The average for the 197 stations reporting was 1.42 inches, or 0.46 inch below the normal. The average for August, 1910, was 1.69 inches. By watersheds the means and departures were: Green, 0.69, -0.26; Grand, 1.44, -0.32; San Juan, 1.94, -0.11; Little Colorado, 1.44, -0.52; Gila, 1.83, -0.57; Mimbres, 1.08, -1.15; and Colorado, proper, 0.59, -0.54 inch. The greatest monthly amount was 5.78 inches at station near Silverton, Colo. Falls of an inch or more in 24 hours were confined principally to Arizona, and occurred mostly at the beginning of the third decade. By subdivisions the greatest and least monthly amounts were: Western Wyoming, 1.23 at Rambler and 0.02 at Pinedale; western Colorado, 5.78 near Silverton and 0.35 at Grand Junction; eastern Utah, 2.24 at Monticello and none at Price and Emery; western New Mexico, 4.61 at Pinos Altos and 0.09 at Columbus; Arizona, 5.32 at Jerome and none at Aztec, Gilabend, Mohawk Summit, Parker, Quartsite, and Yuma No. 1; southeastern Nevada, 0.01 at Caliente and none at Logan.

The average number of days with 0.01 inch or more precipitation was 3 in western Wyoming; 9 in western Colorado; 4 in eastern Utah; 6 in western New Mexico; and 6 in Arizona; and for the district as a whole 6 days.

TABLE 1.—Climatological data for August, 1911. District No. 9, Colorado Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Sky.				Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.		Number of cloudy days.	Prevailing wind direction.
Wyoming.																			
Battle Mountain	Carbon	7,300																Forest ranger.	
Daniel	Uinta	6,740	12	54.4	- 0.2	85	17	21	22	55	0.30	- 0.69	0.30	0	1	22	9	0	nw.
Eden	Sweetwater	6,577	2	61.4		90	18	31	25	49	0.44		0.42	0	2	23	8	0	w.
Green River	do	6,083	6	64.5	- 1.1	94	17 ^a	33	25	49	0.04	- 0.50	0.03	0	2	19	10	2	w.
Merna	Uinta																		
Pinedale	Fremont	7,167	5	56.5		87	17 ^a	24	23	63	0.02		0.02	0	1	22	4	0	nw.
Rambler	Carbon	9,232	1										0.55	0	7	10	15	6	nw.
Willow Creek Cabin	Fremont	7,500	2																Do.
Colorado.																			
Ashcroft	Pitkin	9,483	9	52.9		80	8	29	3	44	2.02		0.49	0	17				
Breckenridge	Summit	9,536	22	50.2	- 3.2	78	19	22	27	46						3	17	8	nw.
Buford	Rio Blanco										1.31		0.41	0	7	25	4	2	w.
Cascade	San Juan	8,900	4								2.47		0.55	0	15	11	9	2	w.
Cedaredge	Delta	6,175	13	69.2	+ 0.4	92	17 ^a	47	34	36	1.06	+ 0.04	0.63	0	6	20	9	2	w.
Chromo	Archuleta	7,500	5	58.6		89	19	31	6	52	3.03		1.30	0	7	14	11	6	sw.
Cochetopa	Saguache	9,088	2								3.69		0.86	0	12	8	11	12	w.
Collbran	Mesa	6,000	18	66.2	- 1.6	89 ^b	19	43 ^b	3 ^a	37 ^b	0.90	- 0.46	0.39	0	8	19 ^b	10 ^b	0 ^b	sw.
Columbine	Routt	8,766	1								1.57		0.35	0	9	10	21	0	sw.
Columbine Ranch	Delta	6,925	1								1.81		0.40	0	8	15	8	8	s.
Corona	Grand	11,660	4								2.25		0.50	0	10				w.
Cortez	Montezuma	6,100	4																
Craig	Routt			65.8		98	17 ^a	30	26	60				0					
Crawford (near)	Montrose	6,600	1	66.0		86	18 ^a	43	3	34	1.07		0.28	0	11	18	12	1	
Crested Butte	Gunnison	8,867	1	52.4		79	18	24	3	48	1.54		0.40	0	9	14	12	5	
Delta	Delta	4,965	21	70.2	- 2.1	98	15	40	5	52	0.55	- 0.39	0.32	0	6	21	10	0	
Dillon	Summit	8,800	1	53.0		81	8 ^a	25	27	53	0.96		0.20	0	7	17	11	3	n.
Durango	La Plata	6,534	16	65.0	- 1.3	89	19	41	28	3	2.89	+ 1.09	1.37	0	15	14	14	3	nw.
Eureka	San Juan	10,000	4								1.31		0.30	0	8	16	4	11	
Fraser	Grand	8,560	2	49.7		77	7 ^a	20	26	50	1.88		0.62	0	10	4	15	12	w.
Fruita	Mesa	4,510	12	72.6	- 0.8	99	17	44	29	59	0.98	- 0.21	0.42	0	5	21	9	1	
Gladstone	San Juan	10,400	4								2.23		0.76	0	13	3	23	5	
Glenwood Springs (near)	Garfield	5,823	13	64.2	- 2.4	92	18	36	1	52	0.79	- 0.58	0.50	0	4	27	4	0	w.
Grand Junction	Mesa	4,608	20	75.8	- 0.3	97	17	54	3	35	0.35	- 0.69	0.11	0	6	19	8	4	se.
Grandlake	Grand	8,153	3								2.00		0.80	0	4	17	13	1	w.
Grand Valley	Garfield	5,059	19	69.5	- 1.9	99	17 ^a	41	3 ^a	50	0.88	- 0.12	0.33	0	7	19	10	2	
Gunnison	Gunnison	7,670	18	56.9	- 2.8	84	15	29	29	50	1.11	- 0.23	0.30	0	10	11	14	6	sw.
Horsefly	Montrose	8,700	1																
Ironton	Ouray	10,000	1								2.15		0.32	0	19	3	27	1	sw.
Lake City	Hinsdale	8,686	6	58.2		82	8 ^a	33	28	39	2.06		0.65	0	17	6	13	12	s.
Lay	Routt	6,190	17	64.4	- 1.3	94	19	30	25	52	0.41	- 0.56	0.25	0	3	16	9	6	sw.
Mancos	Montezuma	6,960	12	64.0	- 0.6	88	19	39	3	40	1.82	- 0.68	0.72	0	7	17	14	0	w.
Marble	Gunnison	7,951	2	58.2		90	17	30	7	52	0.84		0.55	0	5	19	10	2	ne.
Marshall Pass	Saguache	10,846	8								2.46		1.50	0	6	19	11	1	w.
Meeker (near)	Rio Blanco	6,182	19	61.8	- 2.2	87	19	35	24	43	1.67	+ 0.08	0.58	0	7	20	8	3	sw.
Montrose	Montrose	5,811	22	69.2	+ 2.0	92	17 ^a	43	28	43	0.78	- 0.59	0.28	0	7	17	13	1	
Nast	Pitkin	7,953	1	54.4		80	19	31	25	43	1.54		0.38	0	6	17	12	2	w.
Pagoda	Routt	6,500	20	62.2	- 1.3	90	17	33	3	47	2.18	+ 0.63	0.70	0	7	24	0	7	
Pagosa Springs	Archuleta	7,108	4	60.0		88	19	32	7	53	2.80		1.15	0	12	11	18	2	sw.
Palisade	Mesa	4,729	4	75.7		97	17 ^a	54	28	33	0.51		0.22	0	6	20	11	0	sw.
Paonia	Delta	5,694	16	67.2	- 4.0	89	15	46	3 ^a	39	0.93	- 0.28	0.32	0	5	12	17	2	sw.
Parshall	Grand		2								2.14		0.70	0	6				
Pitkin	Gunnison	9,500	2								1.68		0.83	0	8	13	12	6	
Pyramid	Rio Blanco			59.8		85	19	33	3 ^a	45	1.07		0.19	0	11	11	18	2	w.
Rangely	do	5,050	12	71.2 ^b	+ 5.7	98 ^b	19	42 ^b	26	46 ^b				0					w.
Redcliff	Eagle	8,695	18																
Rico	Dolores	8,824	9								1.65		0.33	0	9	22	9	0	sw.
Rifle	Garfield	5,437																	
River Portal	Montrose	6,570	5	66.4		94	17	41	29	46	1.09		0.39	0	7	21	2	8	
Sapinero (near)	Gunnison	8,125	8	56.6		82	19	32	28	42	1.42		0.30	0	10	19	6	6	w.
Shoshone	Garfield	6,110	1	68.6		93	19	47	25	37	1.95		0.59	0	12	16	3	12	
Silverton (near)	San Juan	9,400	4	53.0		80	8	25	9	46	5.78		0.90	0	16	7	19	5	sw.
Spruce Lodge	Grand	9,000	3								3.17		0.55	0	17				
Steamboat Springs	Routt	6,653	8	58.2		88	19	25	25	58	1.16		0.60	0	3	26	2	3	
Tacoma	La Plata	7,300	4								2.31		0.56	0	9	4	12	15	sw.
Telluride	San Miguel			56.4		81	16 ^a	30	27	44	2.08		0.30	0	16	16	8	7	w.
Terminal Dam	La Plata	8,300	4								1.27		0.25	0	10	15	16	0	s.
Terrill's Ranch	Mesa	7,000									1.27		0.74	0	8	19	12	0	ne.
Uncompahgre Plateau	Montrose	8,400	1								0.82		0.40	0	3	11	20	0	sw.
Yampa (near)	Routt	8,000	2								1.98		0.49	0	7	8	18	5	nw.
Utah.																			
Aneth	San Juan	4,800	8	76.7		99	17	51	28	41	0.71		0.48	0	5	23	8	0	
Bluff	do			77.4		102	19	52	28	46	1.04		0.83	0	5	6	8	17	w.
Castle Dale	Emery	5,500	13	69.0	+ 1.6	95	17	42	28	45	0.70	- 0.18	0.60	0	2	26	5	0	
Cisco	Grand	4,447		77.2 ^a		104	19	50	22	45	0.05		0.05	0	1	28	2	1	
Desert Lake	Emery										0.46		0.40	0	2				
Dragon	Uinta			69.2		93	8 ^a	42	15 ^a	46	1.24		0.30	0	8	22	2	7	n.
Duchesne	Wasatch			66.4		93	19	38	28	52	0.34		0.18	0	3	11	20	0	
Elkhorn	Uinta	6,657	1								0.19								

TABLE 1.—Climatological data for August, 1911. District No. 9—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.			Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.		
<i>Utah—Continued.</i>																			
Pine Valley	Washington	6,000	1															Mason Gardner.	
Price	Carbon	5,557		68.0		94	20	42	30	49	0.00		0.00	0	0	25	0	3	R. H. Thompson.
Ranch	Kane	6,700	9	60.4		86	17	36	47	46	0.30		0.20	0	0	20	11	0	J. W. Seaman.
San Rafael	Emery										0.00		0.00	0	0	21	8	0	W. C. Foy.
St. George	Washington	2,880	21	80.3	-0.4	104	19	52	77	48	0.08	-0.66	0.05	0	12	10	16	5	A. B. Ballantyne.
Scotfield	Carbon	7,625	1	56.8		86	17	24	26	53	0.32		0.11	0	5	23	3	5	Bernard Newren.
Springdale	Washington	3,500	3	82.2		105	18	62	25	39	0.56		0.36	0	5	20	0	11	Hattie Wood.
Sunnyside	Carbon	5,280	6								0.47		0.19	0	5				Henry Cullum.
Teasdale	Wayne	7,000	3	65.8		83	8	47	13	31	1.12		0.40	0	11	13	0	18	Josiah Shurtz.
Thompsons	Grand	5,150		76.1		96	17	52	23	33	0.18		0.15	0	2	22	8	1	A. M. Starnont.
Tropic	Garfield	7,000	13	65.7	-0.1	90	17	41	6	46	1.00	-0.47	0.53	0	2	19	9	2	E. P. Bolton.
Trout Creek Ranger	Uinta	9,200	1								0.61		0.20	0	5	9	18	4	U. S. Forest Service.
Vernal	do.	5,050	15	68.6	-1.2	96	17	39	27	50	0.01	-0.62	0.01	0	1	28	2	1	S. P. Trim.
Woodside	Emery	4,645		73.3		99	17	44	25	47	0.65		0.19	0	6	17	12	12	D. P. Adams.
<i>New Mexico.</i>																			
Alma	Socorro	5,500	15	75.4	+ 1.9	102	17	50	27	48	1.99	-0.71	1.72	0	6	7	22	2	M. A. Balke.
Aragon	do.	5,856	4	62.1		90	7	36	57	51	1.65		0.60	0	4	7	23	1	John R. Milligan.
Aztec	San Juan	5,590									0.70	-0.37	0.41	0	6	12	15	4	Dr. T. J. West.
Blackrock	McKinley	6,500	3											0	3	18	13	0	R. J. Bauman.
Bloomfield	San Juan	5,500	16	71.4	-1.6	99	9	44	30	50	1.06	-0.20	0.38	0	8	11	18	2	Fred Le Clerc.
Cambray	Luna	4,215	12								0.40		0.15	0	3	18	13	0	Agent So. Pac. R. R.
Cliff	Grant	4,470	12											0	3	18	13	0	W. C. Belden.
Columbus	Luna	4,054	2								0.09		0.09	0	1	17	12	2	Agent E. P. & S. W. R. R.
Deming	do.	4,333	34	78.6		104	19	55	87	48	0.30	-1.56	0.30	0	1	4	13	14	Agent So. Pac. R. R.
Dulce	Rio Arriba	6,756	4	63.4	-0.2	90	97	36	3	48	1.67	-0.41	1.13	0	11	13	15	3	G. H. Blakeslee.
Fort Bayard	Grant	6,152	36	72.0	+ 0.8	98	7	50	29	37	2.02	-0.83	0.95	0	11	18	12	1	U. S. General Hospital.
Fruitland	San Juan	4,800	18	71.6	-1.2	97	19	44	3	49	0.54	-0.09	0.30	0	5	16	15	0	sw.
Gage	Luna	4,486	4	79.4		105	11	55	27	45	0.30	-1.27	0.20	0	2	6	21	4	Cyrl J. Collyer.
Gila Planting Station	Grant	6,475		70.9		93	7	49	26	34	1.53		0.46	0	15	17	13	1	Agent So. Pac. R. R.
Hachita	do.	4,504	2								0.98		0.50	0	9	15	15	1	U. S. Forest Service.
Haynes	Rio Arriba	6,600	1	74.6		96	14	56	21	27	1.29		1.05	0	3	28	2	1	Agent E. P. & S. W. R. R.
Hermans	Luna	4,451	2								1.03		1.00	0	2	19	3	9	Dr. John R. Haynes.
Lordsburg	Grant	4,245	11	79.5	-1.0	104	8	56	28	44	0.50	-0.99	0.35	0	5	8	23	0	Agent E. P. & S. W. R. R.
Luna	Socorro	7,300	6											0	5	8	23	0	Agent So. Pac. R. R.
Mimbres	Grant	5,007	6								1.91		1.14	0	4	18	13	0	C. B. Martin.
Pinos Altos (near)	do.	8,000									4.61		0.66	0	15	18	9	4	Charles Dennis.
Pratt	do.	4,415	2								1.33		0.52	0	6	14	0	17	O. L. Scott.
Putnam	San Juan	6,200												0	6	14	0	17	Agent E. P. & S. W. R. R.
Redrock	Grant	4,150	6								1.71		0.30	0	11	12	15	4	D. Lee Thompson.
Rodeo	do.	4,118	2								1.81		0.66	0	4	20	10	1	Robert H. Woods.
<i>Arizona.</i>																			
Allaire's Ranch	Cochise	4,184	14								1.52	-1.40	0.45	0	11	12	16	3	Thos. Allaire.
Alpine	Apache	8,500												0	11	12	16	3	U. S. Forest Service.
Aztec	Yuma	492	13	93.3	-1.3	113	16	71	57	39	0.00	-0.45	0.00	0	0	23	6	2	Agent So. Pac. Co.
Benson	Cochise	3,523	31	79.7	-1.9	103	18	55	6	45	1.97	-0.27	1.14	0	7	11	17	3	Do.
Bisbee	do.	5,500	22	73.7	+ 0.8	91	18	57	27	26	3.56	-1.17	0.92	0	10	7	8	20	Rev. J. G. Pritchard.
Bowie	do.	3,756	35	77.4	+ 4.1	106	8	50	30	48	2.39	-0.39	0.91	0	7	8	19	4	Agent So. Pac. Co.
Buckeye	Maricopa	980	19	88.0	-1.5	112	16	60	26	47	1.15	+0.29	0.98	0	2	24	2	5	H. E. Kell.
Canille	Santa Cruz	5,225	2								3.51		0.95	0	14	3	28	0	R. A. Rodgers.
Casa Grande	Pinal	1,396	29											0	14	3	28	0	Agent So. Pac. Co.
Casa Grande Ruins	do.	1,422	3	88.1		110	19	63	5	45	0.13		0.06	0	5	14	15	2	F. Pinkley.
Cave Creek	Maricopa	1,520	4	83.3		106	17	56	5	45	1.33		0.43	0	7	21	10	0	E. A. Howard.
Chin Lee	Apache	6,090	3	71.4		94	87	45	28	42	1.40		0.57	0	6	10	14	7	Fr. L. Ostermann, O. F. M.
Chlarsons Mill	Graham	8,000	5	64.4		82	18	51	28	26	2.95		1.03	0	10	14	13	4	H. R. Chlarsen.
Clifton	Greenlee	3,584	20	86.2		106	14	65	25	36	0.29	-2.15	0.27	0	2	15	15	1	P. Reisinger.
Cline	Gila	2,300	13	81.0	-1.1	102	16	56	6	42	1.75	-0.59	0.67	0	7	10	18	3	W. M. Clanton.
Cochise	Cochise	4,219	13	79.8	+ 0.3	101	77	55	6	44	1.12	-1.00	0.85	0	5	20	1	10	Agent So. Pac. Co.
Columbia	Yavapai	1,900	10	88.1	+ 1.8	111	16	62	1	42	1.95	-0.12	0.70	0	3	12	17	2	M. J. Nolan.
Courtland	Cochise	4,543	2								2.63		0.78	0	13	5	26	0	Agent E. P. & S. W. Co.
Dos Cabezos	do.	5,350	3	72.2		96	77	50	57	44	4.04		0.88	0	8	17	11	3	N. Erickson.
Douglas	do.	3,930	8	79.8		105	67	58	23	46	2.29		0.75	0	13	11	14	0	Dr. F. T. Wright.
Dudleyville	Pinal	2,204	21	80.4	-1.8	101	17	60	3	38	2.06	-0.44	0.60	0	11	6	24	1	G. F. Cook.
Fairbank	Cochise	3,862	3								3.12		1.26	0	12	5	11	15	Agent E. P. & S. W. Co.
Flagstaff	Cocconino	6,907	20	62.1	+ 0.7	84	17	41	30	38	2.45	-0.55	0.55	0	16	13	10	8	U. S. Weather Bureau.
Flagstaff (1)	do.	7,452	5	61.4		85	17	39	6	40	3.33		0.65	0	17	14	11	6	C. C. Moers.
Flagstaff (2)	do.	7,500	2	59.3		84	15	35	57	44	2.32		0.50	0	13	10	6	15	U. S. Forest Service.
Florence	Pinal	1,504	13	88.4	+ 0.9	110	27	62	1	47	0.56	-1.25	0.24	0	4	18	11	2	Agent Ariz. Eastern R. R. Co.
Fort Apache	Navajo	5,200	40	72.2	+ 4.2	102	19	47	30	47	1.42	-1.67	0.42	0	6	18	13	0	Post Surgeon, U. S. A.
Fort Huachuca	Cochise	5,100	25	77.6	+ 3.6	100	67	56	22	37	0.97	-3.29	0.60	0	8	19	0	12	Do.
Gilabed	Maricopa	737	21	93.2	+ 1.4	119	12	68	47	43	0.00	-0.99	0.00	0	0	28	1	2	Agent So. Pac. Co.
Globe	Gila	3,525	9	81.2		105	18	59	27	36	1.33		0.38	0	9	6	25	0	B. G. Fox, M. D.
Grand Canyon	Cocconino	6,806	6	64.2		83	18	41	11	33	2.13		0.72	0	6	18	6	7	Agent G. C. R. R. Co.
Grand Canyon (1)	do.	3,676	4	80.2		100	7	59	23	33	1.63		0.71	0	6	9	15	7	C. C. Spaulding.
Granite Reef Dam	Maricopa	1,372	21	88.2	-0.3	110	19												

TABLE 1.—Climatological data for August, 1911. District No. 9—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.					Sky.			Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.		Number of cloudy days.	Prevailing wind direction.
Arizona—Continued.																			
Osborn	Cochise	4,676	2															Agent E. P. & S. W. Co.	
Paradise	do.	5,436	4	70.2		95	7	49	10†	45	4.19		1.98	0	9	3	28	J. C. Hancock.	
Parker	Yuma	345	12	86.7	- 4.8	116	16†	60	9†	53	0.00	- 0.88	0.00	0	0	28	6	M. A. Israel, M. D.	
Payson	Gila	5,550	3	72.2		92	14†	50	1†	32	3.33		1.01	0	7	16	10	M. McDonald.	
Phoenix	Maricopa	1,108	16	87.7	- 1.3	108	19	66	27	34	1.68	+ 0.72	0.68	0	6	21	9	1	U. S. Weather Bureau.
Phoenix (1)	do.	1,092	20	86.9	- 0.9	110	16	65	1†	41	1.97	+ 0.92	0.80	0	5	18	11	2	G. Acuff.
Phoenix (2)	do.	1,189	3	87.4		108	15†	62	27	42	0.96		0.50	0	3	21	8	2	sw.
Pinal Ranch	Pinal	4,520	17								3.25	- 0.08	1.65	0	6	22	6	3	sw.
Pinto	Apache	5,660	7								1.62		1.14	0	3	23	6	3	sw.
Prescott	Yavapai	5,320	44	70.2	- 0.9	94	18	38	3†	40	2.78	- 0.31	1.08	0	8	18	9	4	J. W. Fliinn, M. D.
Quartzsite	Yuma	800	4	92.6		114	17†	72	7†	41	0.00		0.00	0	0	17	13	1	w.
Redrock	Pinal	1,864	4	91.4		110	15†	68	23†	32	1.12		0.40	0	7	4	27	0	w.
Roosevelt	Gila	2,175	7	88.0		107	16	67	10	34	2.01		1.80	0	2	10	16	5	e.
Sacaton	Pinal	1,280	4	86.2		109	19	61	31	42	0.82		0.47	0	3	14	15	2	sw.
St. Johns	Apache	5,650	9	71.2		97	7†	46	6	50	1.11		0.34	0	5	11	18	2	s.
St. Michaels	do.	6,950	24	68.2	+ 0.9	90	2†	43	28	40	1.35	- 1.14	0.50	0	7	10	16	5	sw.
Salome	Yuma	1,875	4	85.4		106	31	57	6	45	0.08		0.08	0	1	16	15	0	sw.
San Carlos	Gila	2,456	28	82.6	- 0.9	113	15	48	6	57	0.59	- 2.00	0.24	0	4	12	18	1	sw.
San Simon	Chochise	3,609	27																Agent So. Pac. Co.
Seligman	Yavapai	5,219	6	69.4		99	14	46	4†	48	0.23		0.12	0	3	15	14	2	sw.
Sentinel	Maricopa	685	13	91.8	- 1.4	112	30	70	11	37	0.10	- 0.30	0.10	0	1	26	4	1	sw.
Silverbell	Pima	2,650	6	86.8		117	17	61	17	56	1.53		0.52	0	6	12	16	3	ne.
Snowflake	Navajo	5,644	4	69.4		92	18	45	5	44	1.80		0.34	0	11	6	14	11	sw.
Springerville	Apache	6,862	1	59.6		87	19	32	28†	48	2.40		0.43	0	15	14	8	9	s.
Supai	Coconino	3,200	6	83.6		106	17	64	20	36	0.98		0.57	0	5	14	8	9	sw.
Tempe	Maricopa	1,165	7	86.8		110	19	61	6	43	1.12		0.54	0	5	20	11	0	nw.
Thatcher	Graham	2,800	8	82.0		107	16	53	5	49	1.34		0.91	0	5	14	15	2	se.
Tombstone	Cochise	4,550	18	79.2	+ 3.2	103	6	60	20†	37	2.79	- 1.02	0.88	0	11	12	19	0	sw.
Truxton	Mohave	3,997	2	79.2		100	16†	57	5	38	0.66		0.34	0	3	16	14	1	s.
Tuba	Coconino	4,500	12	73.7	- 1.4	97	17	52	5†	42	0.37	- 0.43	0.18	0	4	15	10	6	sw.
Tucson	Pima	2,390	32	85.0	- 0.3	106	15	63	4	40	2.06	- 0.36	0.70	0	9	5	26	0	nw.
Tucson (1)	do.	2,380	3	83.0		108	15	58	4†	45	2.64		0.90	0	8	11	14	6	sw.
Tucson (2)	do.	2,526	1	85.0		107	15	65	31	42	1.78		0.63	0	2	14	6	11	w.
Vail	do.	3,421	12	79.0	- 0.7	103	13	60	10†	41	3.64	+ 2.42	2.05	0	5	14	14	3	sw.
Walnut Grove	Yavapai	3,649	19								2.33	+ 0.17	1.40	0	3	12	15	4	sw.
Wickenburg	Maricopa	2,072	12	88.8	+ 3.6	110	9	65	6	38	1.15	- 0.73	0.72	0	4	22	9	0	w.
Willcox	Cochise	4,164	31	74.5	- 3.9	101	7†	48	12	51	0.81	- 1.67	0.22	0	5	16	0	15	s.
Williams	Coconino	6,750	11	64.6	- 2.0	88	21	39	30	41	1.93	- 0.83	0.66	0	7	13	14	4	sw.
Winslow	Navajo	4,853	7	74.8		101	8	45	2	53	1.28		0.49	0	4	19	10	2	sw.
Yuma	Yuma	141	31	90.9	+ 0.8	114	30	68	4	43	0.01	- 0.34	0.01	0	1	30	1	0	s.
Yuma (1)	do.	150	4	85.4		111	30	59	5	49	0.00		0.00	0	0	30	0	1	sw.
Nevada.																			
Calliente	Lincoln	4,407	1	68.8		101	20	36	9	57	0.01		0.01	0	1	26	5	0	se.
Logan	Clark	1,700	4	85.1		110	16†	60	1†	47	0.00		0.00	0	0	14	17	0	s.

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
 ** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
 † Also on other dates.
 T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—Daily precipitation for August, 1911. District No. 9—Continued.

Stations.	Watershed.	Day of month.																														Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31			
<i>Arizona—Contd.</i>																																				
Phoenix (2).....	Salt.....										.15											.50					.31								0.96	
Pinal Ranch.....	Gila.....													.33						.69	.05	1.65	.04		.50									3.26		
Pinto.....	Little Colo- rado.								T.	T.	T.		T.						T.	1.14	.34	T.	T.		.14	T.	T.							1.62		
Prescott.....	Hassayampa										T.	T.	.09		.04	T.		T.				T.	1.07	1.08	.04		.02	.31	.13					2.78		
Quartzite.....	Colorado.																																		0.00	
Redrock.....	Santa Cruz.								T.			T.	T.			T.	.03	.11		.11	T.		.30			.40	.09			.08					1.12	
Roosevelt.....	Salt.....								T.		.21												T.		T.	T.	1.80								2.01	
Sacaton.....	Gila.....									.47													.15		.20										0.82	
St. Johns.....	Little Colo- rado.									.34	T.	T.	.25				.15						.25				.12								1.11	
St. Michaels.....	do.								T.		T.	.20	T.	.12	.12	.50						T.	.26		T.	.05	.10	T.	T.			T.		1.35		
Salome.....	Colorado.																																		0.00	
San Carlos.....	Gila.....												.10							.12						.24	.08	.13							0.59	
San Simon.....	do.																																			
Seligman.....	Verde.											T.	.06	.05	.12																				0.23	
Sentinel.....	Gila.....																																		0.10	
Silverbell.....	Santa Cruz.									.36												.52	.15		T.		.12	T.	.10						1.53	
Snowflake.....	Little Colo- rado.									.34	T.	T.	.06		T.	T.	.20				.18	.24	.21	.09	T.	.06	.13								1.80	
Springerville.....	do.						.01		.03	.18	.33	.12		.10	.05		.05	.05	.25	.20	.43		.05	.25	.30										2.40	
Supai.....	Colorado.												.08	.01							.03	.57	.29												0.98	
Tempe.....	Salt.....										.15											.01	T.	.32			.10	.54							1.12	
Thatcher.....	Gila.....								T.	.16		T.								T.	.06	.06	.15			.91									1.34	
Tombstone.....	San Pedro.							.08		.20	.02		.30	.15		.04					.88	.38				.50	.09	.15							2.79	
Truxton.....	Colorado.									T.	T.	.29	.12	.34								T.	T.			T.	T.	T.	T.						0.66	
Tuba.....	Little Colo- rado.									T.	T.	.03	T.			.18		.06						T.				.10	T.						0.37	
Tucson.....	Santa Cruz.								T.			T.		.06		.15	T.		.43	.08	.24	.23			T.	.02	.70							2.06		
Tucson (1).....	do.							.03								.09		.35		.36	.90	.07			.13		.71								2.64	
Tucson (2).....	do.									.01						.06		T.	.57	.06	.28	.38			.01		.42	T.							1.78	
Vail.....	do.																	.30	.28	1.00						.01	2.05								3.64	
Walnut Grove.....	Hassayampa															T.	T.					1.40	.23				.70	T.	T.						2.33	
Wickenburg.....	do.																					.72				.10	.32	.01							1.15	
Willcox.....	Desert.								.10	.18										.22		.13		.18		T.									0.81	
Williams.....	Colorado.									.14		.47		.10								.12	.20			.66	.24								1.93	
Winslow.....	Little Colo- rado.								T.	.49	T.		T.		T.						.25	.18			T.	.36		T.							1.28	
Yuma.....	Colorado.													.01																						0.01
Yuma (1).....	do.																																			0.00
<i>Nevada.</i>																																				
Caliente.....	Colorado.																																	.01		0.01
Logan.....	do.																																			0.00

* Precipitation included in that of the next measurement.
 † Separate dates of falls not recorded.
 ‡ Precipitation for the 24 hours ending on the morning when it is measured.
 T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for August, 1911. District No. 9, Colorado Valley.

Date.	Wyoming.				Colorado.								Utah.						New Mexico.										
	Daniel.		Green River.		Durango.		Grand Junction.		Gunnison.		Meeker.		Steamboat Springs.		Emery.		Fort Duchesne.		Hite.		Moab.		St. George.		Fort Bayard.		Bloomfield.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	78	31	81	41	84	47	95	63	76	33	84	41	80	31	81	49	96	43	102	64	99	51	100	53	92	61	97	48	
2.	62	42	79	41	82	49	90	63	75	41	79	55	77	36	82	46	90	46	100	80	93	70	98	65	91	59	90	54	
3.	70	33	80	38	81	47	88	54	70	40	76	36	78	27	80	40	88	39	100	65	96	50	99	57	88	58	95	49	
4.	74	34	86	43	81	45	92	67	74	36	82	44	80	35	79	41	94	49	97	68	98	60	98	60	89	57	93	47	
5.	73	38	87	46	84	44	94	64	73	34	83	44	85	34	79	43	97	46	100	73	98	61	99	57	92	60	94	47	
6.	76	31	89	44	83	44	91	58	73	33	81	50	80	35	80	47	90	46	99	64	99	54	99	57	92	57	97	48	
7.	80	40	88	49	86	43	96	61	81	34	84	48	87	29	83	49	97	40	101	62	98	51	100	52	98	61	97	47	
8.	78	36	89	44	87	46	96	62	79	36	86	39	86	30	85	46	99	41	101	64	101	51	102	62	95	59	97	51	
9.	81	31	85	42	86	51	91	69	82	32	82	43	83	34	82	45	96	46	98	77	101	68	96	63	93	57	99	57	
10.	78	37	86	42	82	53	86	66	83	34	80	45	76	50	81	47	90	56	92	75	92	67	98	59	.....	61	89	54
11.	77	33	86	44	77	49	84	63	76	39	75	57	77	47	85	48	90	55	92	66	93	57	97	67	.....	60	84	51
12.	78	31	85	41	77	55	81	59	74	42	72	50	75	42	82	46	87	51	93	68	89	66	97	72	.....	59	86	52
13.	78	33	89	48	80	47	87	58	81	40	76	44	82	40	85	49	93	44	95	64	94	55	95	65	.....	57	90	49
14.	80	36	92	50	86	51	93	62	83	35	81	42	86	34	84	45	94	46	101	65	100	56	98	64	.....	58	93	57
15.	80	35	90	49	87	54	94	65	84	41	79	46	86	37	86	43	97	51	102	69	101	60	101	69	91	60	93	62	
16.	83	33	91	49	86	56	94	67	79	42	82	53	83	47	82	45	96	54	102	70	100	62	101	59	92	62	93	60	
17.	85	35	94	48	88	54	97	66	81	41	82	49	86	39	80	46	100	50	106	72	102	60	103	56	91	59	96	57	
18.	84	35	93	47	83	56	93	68	80	43	85	46	86	42	79	45	98	52	101	80	101	69	102	73	90	60	91	59	
19.	83	33	94	52	89	52	96	68	83	41	87	50	88	41	83	47	100	52	103	75	104	62	104	67	89	62	95	59	
20.	76	35	89	53	83	58	88	68	82	42	75	50	76	50	81	40	98	60	103	75	100	61	101	67	87	59	92	65	
21.	75	36	86	40	80	56	83	64	70	50	75	46	79	40	85	43	94	51	98	77	94	65	99	70	90	55	90	55	
22.	76	21	78	50	65	54	84	59	69	51	79	46	76	48	81	45	92	54	90	70	93	62	96	70	78	60	74	58	
23.	75	34	82	42	70	48	86	57	70	40	75	42	74	37	83	40	90	47	93	63	91	55	96	64	79	54	81	54	
24.	69	30	76	44	78	47	85	61	65	36	74	35	75	31	86	47	85	42	87	65	93	54	97	59	81	54	88	55	
25.	74	25	73	33	76	47	88	57	71	35	77	35	75	25	81	44	90	38	93	65	95	59	99	52	76	53	86	55	
26.	68	25	80	35	79	44	91	58	75	30	77	35	78	25	83	45	91	39	98	67	95	57	96	61	81	51	86	53	
27.	74	24	80	43	67	48	87	59	66	40	71	41	77	30	82	41	90	39	90	70	95	60	94	65	78	53	89	55	
28.	73	27	84	35	72	41	86	54	63	32	78	39	78	28	85	43	90	41	94	61	92	51	96	58	78	52	80	46	
29.	74	30	84	37	77	42	87	56	79	29	75	40	80	29	82	45	92	41	96	61	93	51	98	60	76	50	85	49	
30.	76	32	86	38	83	46	90	59	81	31	80	41	83	32	81	40	95	46	100	60	97	52	100	53	81	51	89	44	
31.	87	31	89	42	85	48	92	60	75	36	82	41	83	32	83	45	96	43	.....	.....	98	55	100	50	83	53	90	48
Mns.	76.4	32.5	85.5	43.5	80.8	49.1	89.8	61.8	76.1	37.7	79.2	44.3	80.5	36.0	82.3	44.7	93.4	46.5	98.0	68.7	96.6	58.2	98.7	61.9	86.8	57.2	89.6	53.1	

Date.	Arizona.																				Logan, Nev.				
	Bisbee.		Flagstaff.		Fort Apache.		Grand Canyon.		Parker.		Phoenix.		Prescott.		St. Michaels.		San Carlos.		Tucson. ²				Yuma.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			Max.	Min.	Max.	Min.
1.	86	64	80	43	91	53	81	56	108	75	104	75	86	56	86	52	108	53	103	70	108	79	107	60	60
2.	87	67	76	54	91	53	80	56	108	67	102	76	85	59	90	56	102	59	100	76	108	80	106	60	60
3.	86	67	77	45	88	55	81	57	106	67	102	71	84	48	84	56	102	58	101	70	106	70	106	60	60
4.	89	69	78	44	89	50	82	56	107	67	102	71	86	56	85	54	104	56	102	68	105	68	106	65	65
5.	90	64	80	45	90	48	80	58	106	70	104	72	88	48	90	60	103	51	103	67	107	67	104	62	62
6.	90	64	80	44	90	50	81	57	108	65	103	69	88	48	90	50	105	48	104	66	106	68	103	60	60
7.	89	69	81	44	89	50	79	57	108	65	105	71	88	54	90	50	106	49	104	72	110	70	106	60	60
8.	89	69	81	47	91	52	79	56	110	67	102	76	88	54	89	55	106	58	102	76	107	74	105	60	60
9.	86	62	78	51	95	50	78	55	105	60	99	76	84	61	90	56	103	70	98	70	105	78	105	63	63
10.	86	61	68	48	98	53	61	51	105	60	97	71	83	63	84	54	100	58	98	71	106	72	103	65	65
11.	82	62	76	46	96	58	71	41	108	60	100	71	84	52	83	48	101	62	96	73	108	68	105	62	62
12.	82	64	74	44	95	57	61	50	105	60	101	74	83	52	85	51	99	59	99	72	107	73	102	60	60
13.	84	64	79	43	94	56	66	48	108	60	102	74	86	53	81	48	101	60	100	72	107	74	103	66	66
14.	85	64	81	48	93	53	72	51	112	60	104	76	88	56	85	52	109	66	103	73	107	76	106	68	68
15.	82	65	82	50	96	56	75	53	113	60	107	78	91	58	86	53	113	74	107	80	110	73	106	65	65
16.	88	67	84	48	98	58	78	53	116	68	108	77	92	55	88	54	111	70	104	77	110	72	110	64	64
17.	89	63	84	54	100	58	81	57	110	60	106	83	91	67	88	57	109	70	105	70	109	80	110	67	67
18.	91	65	82	50	101	54	83	58	116	69	106	78	94	59	89	60	109	63	105	67	108	79	110	70	70
19.	90	67	82	49	102	58	82	59	115	72	108	82	90	57	88	55	108	65	104	76	111	78	110	73	73
20.	85	63	81	53	95	56	73	59	107	67	102	80	85	62	86	56	105	70	102	69	104	80	108	70	70
21.	76	60	69	54	90	56	72	47	106	69	88	73	88	60	80	50	93	69	90	69	104	83	105	70	70
22.	74	62	67	47	86	54	65	50	106	72	96	72	79	56	73	57	91	66	91	68	105	81	104	80	80
23.	78	60	75	46	84	59	74	46	106	65	98	69	81	51	80	50	105	59	93	66	106	78	103	65	65
24.	82	62	75	44	85	49	78	48	106	65	102	75	82	53	79	46	101	56	99	69	111	72	105</		